

## Patent Abstracts of Japan

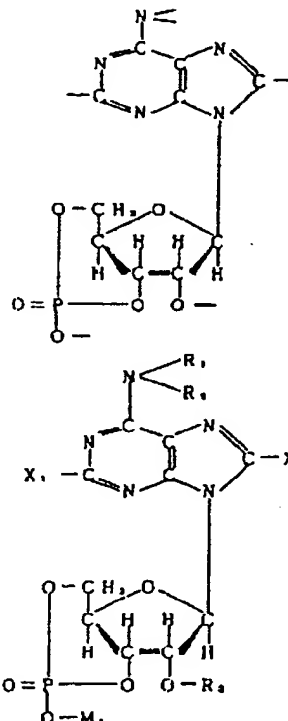
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TITLE : COMPOSITION FOR HAIR



ABSTRACT : PURPOSE: To obtain a composition for hair capable of promoting melanin formation, preventing and improving gray hair by external use to scalp, containing, a nucleic acid-related substance such as adenosine 3',5'-cyclic-phosphate compound, etc., and flavin adenine dinucleotide, etc.

CONSTITUTION: A composition for hair containing 0.01-2% nucleic acid-related substance selected from a compound having a basis skeleton shown by formula I, flavin adenine dinucleotide and a salt thereof. The composition is applied to scalp, activates melanocyte, promotes melanin formation, can prevent and improve gray hair. A compound shown by formula II (R<sub>1</sub>-R<sub>3</sub> are H, 1-22C acyl or alkyl; X<sub>1</sub> and X<sub>2</sub> are H, halogen, thio-containing group, amino or OH; M<sub>1</sub> is H or salt-forming cation) is preferable as the compound shown by formula I and adenosine 3',5'-cyclic-phosphate wherein R<sub>1</sub>-R<sub>3</sub>, X<sub>1</sub> and X<sub>2</sub> are all H may be cited.